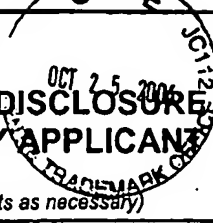

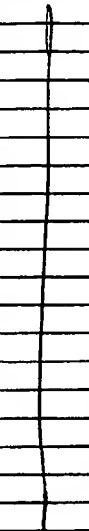



Substitute for form 1449A/PTO		OCT 25 2004		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/087,153
				Filing Date	February 28, 2002
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
				Examiner Name	MANAHAN, TODD E.
Sheet	1	of	10	Attorney Docket Number	018563-002910US

U.S. PATENT DOCUMENTS+					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	2,467,432	04-19-1949	Kesling	
	AB	3,660,900	05-09-1972	Andrews	
	AC	3,860,803	01-14-1975	Levine	
	AD	3,916,526	11-04-1975	Schudy	
	AE	3,950,851	04-20-1976	Bergersen	
	AF	4,014,096	03-29-1977	Oellinger	
	AG	4,195,046	03-25-1980	Kesling	
	AH	4,324,546	04-13-1982	Heitlinger et al.	
	AI	4,348,178	09-07-1982	Kurz	
	AJ	4,478,580	10-23-1984	Barrut	
	AK	4,504,225	03-12-1985	Yoshii	
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	AM	4,575,805	03-11-1986	Moermann, et al.	
	AN	4,611,288	09-09-1986	Duret et al.	
	AO	4,656,860	04-14-1987	Orthuber et al.	
	AP	4,663,720	05-05-1987	Duret et al.	
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	AR	4,755,139	07-05-1988	Abbatte et al.	
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	AX	4,856,991	08-15-1989	Breads et al.	
	AY	4,936,862	06-26-1990	Walker et al.	
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	BB	4,975,052	12-04-1990	Spencer et al.	
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	BD	5,017,133	05-21-1991	Miura	
	BE	5,027,281	06-25-1991	Rekow et al.	
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	BJ	5,121,333	06-09-1992	Riley et al.	
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	BL	5,131,843	07-21-1992	Hilgers et al.	
	BM	5,131,844	07-21-1992	Marinaccio et al.	
	BN	5,139,419	08-18-1992	Andreiko et al.	
	BO	5,184,306	02-02-1993	Erdman et al.	
Examiner Signature	Todd E. Manahan Primary Examiner			Date Considered	12-6-04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete If Known		
			Application Number	10/087,153	
			Filing Date	February 28, 2002	
			First Named Inventor	PAVLOVSKAIA, ELENA	
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			Examiner Name	MANAHAN, TODD E.	
Sheet	2	of	10	Attorney Docket Number	018563-002910US

U.S. PATENT DOCUMENTS+					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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  	BP	5,186,623	02-16-1993	Breads et al.	
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	BR	5,273,429	12-28-1993	Rekow et al.	
	BS	5,278,756	01-11-1994	Lemchen et al.	
	BT	5,338,198	08-16-1994	Wu et al.	
	BU	5,340,309	08-23-1994	Robertson	
	BV	5,342,202	08-23-1994	Deshayes	
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	BX	5,382,164	01-17-1995	Stem	
	BY	5,395,238	03-07-1995	Andreiko et al.	
	BZ	5,431,562	11-11-1995	Andreiko et al.	
	CA	5,440,496	08-08-1995	Andersson et al.	
	CB	5,447,432	09-05-1995	Andersson et al.	
	CC	5,452,219	09-19-1995	Dehoff et al.	
	CD	5,454,717	10-03-1995	Andreiko et al.	
	CE	5,456,600	10-10-1995	Andreiko et al.	
	CF	5,474,448	12-12-1995	Andreiko et al.	
	CG	5,518,397	05-21-1996	Andreiko et al.	
	CH	5,533,895	07-09-1996	Andreiko et al.	
	CI	5,542,842	08-06-1996	Andreiko et al.	
	CJ	5,549,476	08-27-1996	Stem	
	CK	5,587,912	12-24-1996	Andersson et al.	
	CL	5,605,459	02-25-1997	Kuroda et al.	
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	CP	5,683,243	11-04-1997	Andreiko et al.	
	CQ	5,733,126	03-31-1998	Andersson et al.	
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	CV	EP	376,873	A2	07-04-1990	Shafir		
	CW	EP	490,848	B1	06-17-1992	Andersson et al.		
	CX	EP	544,600	A1	06-12-1998	Andersson et al.		

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Considered

12-6-04

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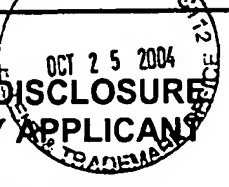
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Substitution for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		OCT 25 2004 RECEIVED		Complete if Known			
		Application Number		10/087,153			
		Filing Date		February 28, 2002			
		First Named Inventor		PAVLOVSKAIA, ELENA			
		Art Unit		3732			
Examiner Name		MANAHAN, TODD E.		Attorney Docket Number		018563-002910US	
Sheet	3	of	10				

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	CY	EP	731,073	B1	09-18-1998	Andersson et al.		
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	DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
	DF	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
	DG	WO	98/58,596	A1	12-30-1998	Chishti et al.		<input type="checkbox"/>

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12 - 6 - 04
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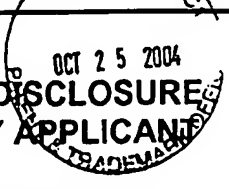
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number		10/087,153		
		Filing Date		February 28, 2002		
		First Named Inventor		PAVLOVSKAIA, ELENA		
		Art Unit		3732		
		Examiner Name		MANAHAN, TODD E.		
Sheet	4	of	10	Attorney Docket Number		018563-002910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.	
	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-964.	
	DJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 102 (1979), p. 187-191.	
	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral Facial Structures," Program and Abstracts of Papers, Feb. 1975, <i>Journal of Dental Research</i> , Vol. 54, IADR Abstracts 1079, 2 pages total.	
	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 1980, 2 pages total.	
	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 193.	
	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavica</i> , vol. 47 (1989), pp. 279-286.	
	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," <i>Proceedings of the Society of Photo-Optical Instrumentation Engineers</i> , Vol. 166, July 9-13, 1978, pp. 112-123.	
	DP	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 44 pages total.	
	DQ	BAUMRIND et al., "Seminars in Orthodontics," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 222.	
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	DS	BAUMRIND, "Integrated Three Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
	DT	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 259-269.	
	DU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 71, Special Issue March 1-14, 1992, pp. 28-36.	
	DV	BHATIA et al., "A Computer Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	
	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

Examiner Signature	Todd E. Manahan	Date Considered	12-6-04
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		Filing Date		February 28, 2002		
		First Named Inventor		PAVLOVSKAIA, ELENA		
		Art Unit		3732		
		Examiner Name		MANAHAN, TODD E.		
Sheet	5	of	10	Attorney Docket Number		018563-002910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DX	DIGGERSTAPP, "Computerized Diagnostic Setups and Simulations," The Angle Orthodontist, Vol. 40, No. 4 (Jan. 1970), pp. 28-36.	
	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," Journal of Dental Research, Vol. 64:Special Issue Abstracts, IADR/AADR Abstracts 1985, 1 page total.	
	DZ	BROOK et al., "An Image Analysis System for the Determination of Teeth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, Abstract of Papers, 1986, Dept. of Children's Dentistry and Orthodontics, J Dent Res., March 1986, pp. 420-431.	
	EA	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 1 and 2)," Journal of Clinical Orthodontics, (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.	
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	EC	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," ICO (June 1990) pp. 360-367.	
	ED	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," Clinical Orthopaedics and Related Research, No. 201 (December 1985), pp. 60-67.	
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	EF	GOTTINGHAM, "Gnathologic clear plastic positioner," Am. J. Orthod., 55:23-31, 1969.	
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	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" Canadian Dental Journal, Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	EI	GROOKS, "CAD/CAM Comes to USC," USC Dentistry, (Spring 1990) pp. 14-17.	
	EJ	URETON, "Correcting malaligned mandibular incisors with removable retainers," J. Clin. Orthod., 30:390-395, 1996.	
	EK	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping of the Craniofacial Research Instrumentation Laboratory/University of the Pacific," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), pp. 250-265.	
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	EM	DCS Dental AG, "The CAD/CAM DCS Titan System for Production of Crowns/Bridges" D60 - Production AG, Jan. 1992, pp. 4-7.	

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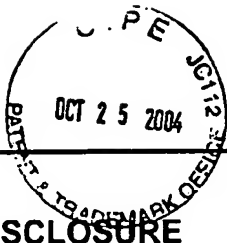
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	EN	DEFRANGO et al., "Three-Dimensional Large-Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-804.		
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.		
	EP	DeiTee Corporation, Dentrac document, pp. 4-18.		
	EQ	DURET et al., "CAD/CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.		
	ER	DURET et al., "CAD/CAM imaging in dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.		
	ES	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hannson International Product Brochure</i> , Jan. 1986, 18 pages total.		
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	EU	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.		
	EV	ELSASSER, "Some observations on the history and uses of the Kesting-positioner" <i>Am. J. Orthod.</i> , 36:368-374, 1950.		
	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.		
	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.		
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.		
	EZ	GM-ALDENT Deutschland, "Des-DUX-System: Die Technik" 4 pages total.		
	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," <i>Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery</i> , AAOMS Sept. 43, 1990, 3 pages total.		
	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.		
	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.		

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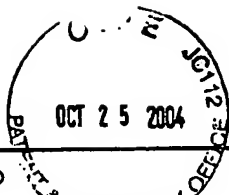
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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), Informationen, (March 1994), pp. 876-896.	
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Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/087,153	
			Filing Date	February 28, 2002	
			First Named Inventor	PAVLOVSKAIA, ELENA	
			Art Unit	3732	
			Examiner Name	MANAHAN, TODD E.	
Sheet	8	of	10	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	FT	MENAMARA et al., "Orthodontic and Orthopedic Treatment in the Mixed Dentition, Needham Press, January 1993, pp. 347-353.		
	FU	MENAMARA et al., "Invisible Retainers", J. Clinical Orthodontics, (August 1985) pp. 570-578.		
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	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" Journal of the American Dental Assoc., Vol. 122 (1991), pp. 42-48.		

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Examiner Name	MANAHAN, TODD E.
Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS

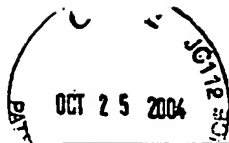
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	GJ	REKOW, "Feasibility of an Automated System for Production of Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.	
	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," British Journal of Orthodontics, pp. 53-54.	
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	GN	SAKUDA et al., "Integrated information processing system in clinical orthodontics: An approach with use of a computer network system," Am. J. Orthod. Dentofac. Orthop., Vol. 101 No. 3 (March 1992), pp. 210-220.	
	GO	SCHILLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," Arch. Otolaryngol. Head Neck Surg., Vol. 114 (April 1988), pp. 438-442.	
	GP	SEGU et al., "Computer-aided Cephalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), Fortschr. Kieferorthop. 44, 570-576 (Nr. 5), 1983.	
	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner," Am. J. Orthod. 59:598-599, 1971.	
	GR	Siemens, "CEREO - Computer Reconstruction," High Tech in der Zahnmedizin, 14 page total.	
	GS	Sirona Dental Systeme GmbH, CEREO 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 112 pages total.	
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), Dtsch. Zahnärztl. Z. 45, 314-322, 1990.	
	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.	
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	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	

Examiner
SignatureTodd E. Manahan
Primary ExaminerDate
Considered

12-6-01

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	GZ	VAN DER ZEL, "Ceramic fused to metal Restorations with a New CAD/CAM System," Quintessence International, vol. 24(11) (1993), pp. 769-770.		
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	HG	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS, Sept. 19, 1990, p. 5.		
	HH	YAMAMOTO et al., "Three Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 3, pp. 2051-2053, 1990.		
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